APPLIED GEOMETRICS, INC.

GD&T for MANUFACTURING

1 or 2-Day Seminar (~8 hours of instruction; 0.8 CEU's)
May be presented in two 4-hour sessions over two days. Two concurrent groups can attend mornings for two days or afternoons for two days; alternatively the material can be covered in one 8-hour day

Course Description

This course is for your manufacturing personnel who are attempting to and read and *interpret* the Geometric Dimensioning and Tolerancing (GD&T) per the ASME Y14.5 standard that your designers have put on the prints, but who don't have the need to *apply* GD&T to prints.

Objectives

1. Understand the difference between a Product (finished part) drawing and a Process drawing
2. Explore the 3 Perspectives of Users of Drawings (Design, Manufacturing and Inspection)
3. Learn how to effectively read a drawing
4. Learn how to read GD&T callouts
5. Learn how to make and measure parts specified with GD&T callouts

Benefits

Your engineers have GD&T on your drawings, but your manufacturing staff can't interpret it! If you have been attempting to work with GD&T, and you lack the confidence to interpret the specifications, this course is for you. Using GD&T improperly can be worse than not using it at all! This program is an introduction to the Y14.5 standard. The main goal is to bring all participants to a basic and operational level of understanding of GD&T.

Program Outline

This program covers some basic print reading and the definitions of the GD&T symbols. The subject matter covered is (as a minimum):

- Reading a drawing, both process and product drawing, and how to determine the difference
- Types of features of your parts
- GD&T symbols and definitions of controls
- Tolerance Zones – definition, concepts, comparison to existing systems.
- Datum Reference Frames – definition and proper construction and selection
- Reading a Feature Control Frame

Who Should Attend

This program is designed for manufacturing personnel, but not limited to them. This is a general overview for those who need to read GD&T callouts on prints. Those who attend will leave with a foundational knowledge of GD&T needed to interpret drawings. This is not a comprehensive course. Additional training is recommended for those who need a more in-depth understanding of how to *apply* GD&T.

Prerequisites

Basic print reading skills are desired. Your drawings must correctly meet the ASME Y14.5 standard.

Continuing Service

At AGI we are particularly concerned that the individuals that we teach actually retain that which their companies and we have worked so hard to present. This concern is precisely why we offer, for each participant of any AGI seminar, access to a senior consultant (usually the instructor of the course) who will be available to answer any follow up questions after the course via telephone or e-mail.

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